CLAIMS

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- 1. A process for producing a connecting element for sealing and non-releasable connection to a hollow body of thermoplastic material, comprising a step of press shaping a laminate of thermoplastic material, wherein the press shaping step is carried out between two mating platens.
- 2. The process according to claim 1, further comprising forming the laminate by coextrusion of a multi-layer preform, and press shaping the preform in a first heating step to a definitive shape of the connecting element.
- 3. The process according to claim 2, wherein the preform is extruded in a form of a tube having oppositely disposed walls which are pressed against each other in the press shaping step.
- 4. The process according to claim 1, wherein the two mating platens comprise male and female mold portions.
- 5. The process according to claim 1, wherein the hollow body is formed by a blow molding operation, and the press shaping step is performed in the same blow molding operation.
- 6. The process according to claim 1, wherein the connecting element is formed by press shaping a plate-shaped, multi-layer, semi-finished product or excess extrudate from blow molding of the hollow body.
- 7. The process according to claim 1, wherein the laminate has a low level of permeability to hydrocarbons.
 - 8. The process according to claim 7, wherein the laminate comprises at least one barrier layer for hydrocarbons.
 - 9. The process according to claim 8, wherein the at least one barrier layer is at least almost completely embedded into the material of the connecting element.
 - 10. The process according to claim 8, wherein the connecting element includes a cylindrical portion and the barrier layer extends at least in a region of the cylindrical portion of the connecting element near an inside wall thereof.
 - 11. The process according to claim 8, wherein the laminate comprises at least first and second barrier layers.

- 12. The process according to claim 11, wherein the connecting element has a main body substantially comprising polyethylene and the barrier layers are embedded in the main body.
- 13. The process according to claim 11, wherein the barrier layers comprise EVOH (ethylene vinyl alcohol).
 - 14. The process according to claim 7, wherein the hollow body is a fuel tank.
- 15. The process according to claim 14, wherein the connecting element is in a form of an insert adapted for fitting to the fuel tank in sealed relationship therewith.
- 16. The process according to claim 15, wherein the insert is adapted to be connected to the fuel tank by a connection involving joining of the thermoplastic materials of the insert and the fuel tank.
- 17. The process according to claim 15, further comprising a step of welding the insert to the fuel tank
- 18. The process according to claim 17, wherein the welding step is selected from the group consisting of hot plate welding, butt welding, friction welding, and sealing with heat reflectors.

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